

GODDARD SPACE FLIGHT CENTER\WFF

1. CONTRACTOR: Northrop Grumman Innovation Systems 7500 Greenway Center Drive, Suite 700 Greenbelt, MD 20770	2. CONTRACT NO.: <p style="text-align: center;">NNG15WA53C</p>	3. TASK-MOD NO.: <p style="text-align: center;">Task 031 Rev. 0</p>
4. TASK NAME/PROJECT: <p style="text-align: center;">GUSTO Mission Support</p>		

5. DESCRIPTION OF WORK TO BE PERFORMED (OBJECTIVES OR RESULTS DESIRED):

This Cost Plus Fixed Fee Task Order (CPFFTO) enables provisions for efforts related to supporting the NASA Explorer's Office Galactic/Extragalactic ULDB Spectroscopic Terahertz Observatory (GUSTO) mission.

A risk to the GUSTO mission is the use of satellite derived winds to predict the balloon's trajectory for ultra-long duration flights. One component of this task is to procure and fly small super pressure balloons (SPB) (~ 0.6 million cubic feet in volume) to validate the breakdown of the winds. 2 pathfinder SPBs are to be flown during the FY20 Antarctic campaign. In addition, purchase of two more balloons for the FY20 New Zealand campaign.

The second component of this task is the fabrication and testing of new flight hardware systems that are built with the recently added quality assurance program implemented at CSBF. This will include a new build of the Support Instrumentation Package (SIP), LDB Terminate Package, and other required command and control systems (helium valves, ballast valves, SPB required instrumentation, etc.) The SIP is a long lead item to build and test and may not be completed by the end of the current period of performance. In addition, fabrication and testing of the new hand-launch support systems to be utilized during the FY20 New Zealand campaign.

The third component of this task should include all necessary labor and travel required to support the GUSTO project to include teleconferences, formal reviews, team meetings, and/or testing.

6. TASK DOCUMENTATION REQUIREMENTS/DELIVERABLE ITEMS: Two pathfinder balloons built and flown FY20 Antarctica. Two pathfinder balloons and associated command and control support systems built, tested and ready for shipment prior to Jan 31, 2020 to New Zealand. New flight hardware build package/testing status report by January 31, 2020.

7. PERFORMANCE/MILESTONE SCHEDULE: The Period of Performance ends January 31, 2020.

8. QUALITY ASSURANCE REQUIREMENTS: As set forth under NNG15WA53C.

9. TRAVEL, MATERIALS, ETC., KNOWN TO BE REQUIRED: As set forth under NNG15WA53C.

10. STANDARDS and METRICS: As set forth under NNG15WA53C.

11. OTHER (FUNDING, NTE, REGULAR HOURS, PREMIUM HOURS, ETC.):



COR: *David D. Gregory*

CO:

12. TASK ORIGINATOR/MONITOR/CODE/PHONE:
David D. Gregory / 820 / 2367

13. FUNDING WBS/ACCOUNT NUMBER:

14. BPO CHIEF CONCURRENCE:
Debora A. Fairbrother / 1453

15. CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE:
David D. Gregory / 820 / 2367

David D
Gregory

Digitally signed by
David D Gregory
Date: 2019.04.26
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16. THIS TASK ORDER IS
ISSUED PURSUANT TO THE
TERMS OF THE CONTRACT.

CONTRACTING
OFFICER'S
SIGNATURE/DATE



Lisa B. Hall

5/29/19